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Field Museum of Natural History Report 1973/1974

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FIELD MUSEUM OF NATURAL HISTORY

Report 1973-1974

View through the pillars of ceremonies held June 25, 1974 to celebrate the Museum's 80th anniversary and rededication of the 53-year old building. Dixieland band, red-and-white tent, and a picnic lunch helped to make the event a festive one. (Chicago Tribune Photo).

In the 1969-1970 report we quoted Dr. Rene Dubos' statement, "Trend is not destiny." Today, more than at any other time in their history, museums and other non-profit institutions in America are caught up in trends, most not of their own making, that can profoundly affect their future. It is now more critical than ever that institutions define purposes and design programs and internal structure necessary to fulfill those purposes.

During the last several years, Field Museum has moved deliberately toward a goal-oriented existence, with important results. The most conspicuous of these is the successful completion of the Capital Campaign in December, 1974. Coincident with the fund solicitation efforts, the Museum staff developed plans for the building rehabilitation and improvement program in collaboration with architects Harry Weese & Associates. A number of building projects were partially or fully completed during 1973-1974. These are outlined on pp. 24-26.

During the past two years a fundamental change in the organization of the Board of Trustees took place as a result of year-long study by a committee of the Board assisted by McKinsey and Company. The committee sought to develop an organization that would guarantee the ability of the Museum to establish long-range goals that will insure responsiveness to the broad needs of the community and society at large; and to develop the financial resources necessary to carry out the specific programs required to meet these goals.

Six functional committees and an Executive Committee were established and the responsibilities of each were defined. One of the features of the plan is to combine the talents of Trustees, non-Trustees, including Women's Board members, and staff in the committee process. Most committees were functioning as planned by year end, with clear benefits accruing to the Museum. The importance of this reorganization cannot be overstressed for, in the critical years that lie ahead, those institutions will survive and flourish that find effective and efficient methods of governance, bringing together Board, staff, and the community they serve in rational and constructive effort. The success of the recent changes will be measured by the extent to which Field Museum examines priorities and sets and achieves goals in the years ahead.

Also during this biennium major progress was made in two important areas of personnel relationships. Recognizing the need for more structured and formalized salary and wage administration, the Director appointed a staff committee to review present policies and to make recommendations. A second committee was formed to review employees' fringe benefits. Both did a superb job. The recommendations were reviewed by the Museum Administration, by the Board of Trustees

Internal Affairs Committee and, finally, by the entire Board. By the end of 1974 a new salary and wage administration system was installed in form substantially as recommended by the staff committee. Some revisions were made regarding fringe benefits and study will continue on that subject in 1975.

In the difficult years we see ahead, the welfare of the Museum will rest heavily on several important sources of strength: first, on its Trustees. The work of these men and women during the Capital Campaign and in the various areas of responsibility of the Board committees gives all of us who care for the Museum great confidence. The Women's Board is another source of strength as its members work within the Museum and in the community, opening the Museum to an ever-widening circle of friends. The approximately 200 volunteers, who in this biennium contributed 56,173 hours of devoted effort to the Museum, are making it possible for us to provide services and perform necessary tasks that would otherwise be beyond our capacity.

It is often said that a museum exists because of its collections and that, therefore, a great museum is one with great collections. However, great collections may lie fallow in the absence of a competent staff. It is primarily the staff's use of a collection that makes a museum a great institution. If, as we believe, Field Museum is a great museum, then it is so because of its staff.

We tend to think of the Museum's staff as specialists—scientists in certain areas, building engineers, educators, designers, craftsmen. And so they are. Yet in the past two years important efforts, such as the review of salary administration and building renovation plans, have engaged the staff in activities that demonstrate the varied abilities of these men and women.

With the support of the Board of Trustees, the Women's Board, Museum volunteers, the staff, and the community at large, we look forward to the next few years both realistically and confidently.

Planning and Development

Capital Campaign

A $25-million program begun in early 1971, the Capital Campaign surpassed its goal by the close of the Campaign in December, 1974. A total of $12,623,925 was raised in gifts and pledges; on reaching $12.5 million the Museum qualified for a matching $12.5 million from the Chicago Park District bonding authority, bringing the grand total of funds available for renovations and improvements to more than $25 million.

Ground-level access to the Museum will be provided at the west side of the building. Funded by the Capital Campaign, the new entrance is designed to accomodate both handicapped visitors and large groups.

The collective generosity of the Museum's friends was instrumental in the Campaign's success—from the dimes and quarters of school children to the multi-thousand-dollar gifts of individuals, foundations, and corporations.

A large measure of responsibility for the Capital Campaign rested upon five persons. Nicholas Galitzine, partner of Bacon, Whipple and Co., was Chairman of the Campaign and Marshall Field, publisher of the *Chicago Daily News* and the *Chicago Sun-Times,* was Vice-Chairman. The Corporate Division was headed by Blaine Yarrington, executive vice president of Standard Oil Company (Indiana), and the Individual Gifts Division was chaired jointly by William H. Mitchell, honorary chairman of Mitchell, Hutchins and Company, and Mr. Field. The Women's Board committee was headed by Mrs. Corwith Hamill.

On behalf of the Board of Trustees, the campaign personnel, and the entire Museum staff, Mr. Galitzine expressed sincere gratitude to all contributors. "The extraordinary success of the campaign demonstrates not only what Field Museum means to many persons, but also that the Museum has many friends, and we are truly grateful."

While the emphasis during the three-year campaign was on capital gifts, efforts to obtain annual gifts to the operating fund continued. Many individuals and corporations that gave or pledged capital gifts continued to give annually as well. The Museum is deeply appreciative of their loyal support of the day-to-day operations, thereby assuring continuity of research, exhibition, and educational activities.

The Museum must continue to build dedicated support on an annual basis, for, following the successful Capital Campaign for renovations and major physical improvements, the real need now is for adequate funding to maintain our present level of basic research; our current programs of education for students from the primary grades to the graduate level; and the upgrading of permanent exhibits while continuing a series of relevant temporary exhibits. The difficulties that inflation imposes on the Museum in persuance of these efforts are well known to everyone who must cope with personal or corporate budgets.

Accordingly, at the close of 1974, the Board of Trustees established the Resource Planning and Development Committee that will work closely with the Department of Planning and Development. Bowen Blair, partner of William Blair and Company and Museum Vice-President, is chairman of that committee. This committee, with the help of others, will seek continued major support from the Museum's friends to finance Field Museum's programs.

Women's Board

Mrs. B. Edward Bensinger, President of the Women's Board since mid-1972, completed her term of office in the spring of 1974 and was succeeded by Mrs. Thomas E. Donnelley II, who has capably continued the Board's active program.

The Women's Board has played an effective and dedicated role throughout the Capital Campaign. The committee that served in the campaign drive was headed by Mrs. Corwith Hamill and consisted of Mrs. B. Edward Bensinger, Mrs. Leonard S. Davidow, Mrs. Elliott Donnelley, Mrs. R. Winfield Ellis, Mrs. Burton W. Hales, Mrs. John T. Moss, Mrs. Leo H. Schoenhofen, Jr., Mrs. John R. Siragusa, Mrs. Edward Byron Smith, Mrs. Hermon Dunlap Smith, and Mrs. William Wood-Prince. Mrs. Thomas W. Donnelley II and Mrs. William A. Brown, Jr., with members of the Executive Committee also made a special effort on behalf of the campaign.

As in the past, the Women's Board has been a gracious link between the Museum and the community, welcoming new and long-standing

Since its inception in 1966 the Women's Board has benefitted from the leadership of dedicated presidents: (left to right) Mrs. Hermon Dunlap Smith, is the Board's founder and served as President from 1966 to 1970; Mrs. Edward Byron Smith, 1970-1972; Mrs. B. Edward Bensinger, 1972-1974; Mrs. Thomas E. Donnelley II, 1974 to present.

friends to Museum events and programs. In 1973 Mrs. William L. Searle and Mrs. Robert Wells Carton were co-chairmen of the now-renowned "Christmas Afternoon at Field Museum." The "Contemporary African Arts" exhibit was previewed in a festive fashion, accompanied by dinner, music and entertainment in April, 1974. Nearly 900 guests attended this colorful event.

Board of Trustees

The following trustees were elected to the Board in the period covered by this report: Stanton R. Cook, chairman and publisher of the *Chicago Tribune*; Mrs. Thomas E. Donnelley II; Robert H. Strotz, president, Northwestern University. J. Roscoe Miller, John T. Pirie, Jr., and John M. Simpson were named Life Trustees. Dr. Miller has served as a Trustee since 1959, Mr. Pirie since 1953, and Mr. Simpson since 1961. Field Museum's Board is fortunate to have their continued counsel as Life Trustees. Harry M. Oliver, Jr. completed a five year term as Trustee and did not stand for re-election because of business commitments. Mrs. B. Edward Bensinger completed a term on the Board concurrent with her term as President of the Women's Board.

The Programs

Scientific Programs

ANTHROPOLOGY

GEOLOGY

BOTANY

ZOOLOGY

Research and Publication

The vitality of a research program depends to a large extent on the quality of work of the younger scientists associated with it. This is not to deprecate the efforts of the senior people, but is merely recognition of the necessity for good, new talent to insure continuity and vigor at a high level. It is particularly appropriate, then, to review here the research of several of the junior members of Field Museum's scientific staff.

Robert K. Johnson, Assistant Curator of Fishes, has been working on the classification and evolution of mid-water marine fishes. This research has gone well, leading, in part, to a major publication in *Fieldiana: Zoology* in 1974, as well as some very interesting by-products. One of these is the recognition that some species of fishes having very wide ranges in the open ocean are divided into populations that differ genetically. Furthermore, Johnson has discovered that the genetic differences among these populations are related to differences in organic productivity of the water masses in which the fishes are segregated.

These discoveries have important bearing on other studies of distribution of animals, vertebrate and invertebrate, in the sea. It has been known for some time that certain marine species have limited distributions within the mid-water, open ocean, but the picture of restricted assemblages of species has been blurred by species that range over vast areas. Now the discovery that even these species respond to small but significant physical-chemical differences between water masses helps to bring the picture back into focus. There are indeed distinct communities of organisms in what appears to the casual human eye as one enormous, uniform expanse of sea.

A different sort of study of distribution—this one of patterns of human geography—has been the focus of work by John Terrell, Assistant

Curator of Oceanic Archaeology and Ethnology. We tend to think of ourselves as a species apart, somewhat freed from the patterns that govern the rest of the organic world. To some extent that view is justified. Man as a cultural animal has released himself from certain constraints. For example, his culture enables him to inhabit climates that his unaided flesh and bones could not tolerate. As a consequence, his distribution is unlike that of any other living thing and, understandably, anthropologists have not studied man's patterns of distribution in the same way as biologists have studied the distributions of plants and animals.

As he continued his research on early settlements and culture in the Solomon Islands, John Terrell came to feel that man may not be so distinct in this regard. He began to educate himself in the fields of population biology and theoretical biogeography. The more he read and the more he talked with zoologists and paleontologists, the more Terrell thought that his hunch was correct—the concepts of biogeography did apply to man.

Terrell's use of these concepts in his own studies of man in the Solomons is still in its early stages, but a national conference of archaeologists, anthropologists, and population biologists was convened to discuss the application of theoretical models of population biology and biogeography to the study of human distribution and dispersal. Terrell and a colleague at the Smithsonian Institution, William Fitzhugh, were responsible for organizing the conference, which may well result in increasing co-operation between biologists and anthropologists in the study of man.

William Burger, Associate Curator of Vascular Plants, has been working on the flora of Costa Rica for about six years. The basic goal of this project is to describe all the flowering plants of that tropical country. To reach this goal requires field and laboratory work to identify the plants, recognize and describe new species, clarify their relationships, and determine their distributions. It also requires the active participation of many botanists at other institutions, specialists in various plant groups.

Burger's own research in this large framework has, to date, been centered on several families of plants, the black peppers, oaks, figs, and nettles. While studying these plants, Burger has, not surprisingly, run into species that are difficult to distinguish from one another. All taxonomists have come to expect this kind of trouble, but Burger encountered it in group after group. These problems could be resolved only if one recognized that the process of forming new species could occur over relatively short distances in the wet tropics. This idea may

On a field trip to Costa Rica, William C. Burger, Associate Curator, (left) catalogs specimens collected while Roy Lent, field assistant, records field notes.

help us understand the remarkable species richness of these environments.

Burger and other botanists have known for some time that the black pepper family is a particularly diffcult group. As is often the case with complex biological relationships, once Burger gained some insight into these species he was rewarded with clues to another problem—the probable mode of origin of the three-parted flowers of the kinds of plants botanists call monocots, the lilies, irises, arums, etc. This problem has plagued botanists for years. Burger's ideas on this evolutionary problem, presented at the annual meeting of the American Institute of Biological Sciences, run counter to many currently held opinions, yet are supported by evidence from a variety of sources. The botanical debate continues. Since an important element in the advance of science is constructive intellectual controversy, we are pleased that a member of our staff is contributing to this one.

This brief sample of research activities in 1973-1974 would be incomplete without mention of two major, long-range projects. Philip Hershkovitz, Research Curator of Mammals until he became emeritus in

November, 1974, has been working on a general review of primates for a number of years. Over this period, Hershkovitz has published 20 research papers on this broad topic. These were the forerunners of a major work on living primates of the New World. The manuscript of the first half of this work was completed in mid-1972 and will be published co-operatively by the University of Chicago Press and Field Museum. It is monumental in scope and size (4,500 typed manuscript pages). Ostensibly devoted to species of the Western Hemisphere, their description and distribution, the work actually covers the anatomy and relationships of monkeys of both hemispheres and is likely to become a standard work.

The report for 1971-1972 described the work of Henry Dybas, Curator of Insects, and his colleague from the University of Chicago, Monte Lloyd, on periodical cicadas. The Chicago-area cicada populations were due to emerge from their 17 years underground in the late spring of 1973. As residents of this area know well, these insects were on schedule. Dybas and Lloyd, with the help of students from the University of Chicago, were able to re-census the populations they studied in 1956. One of the things that Dybas and Lloyd were curious about was the effect on the cicadas of mass death of elm trees in part of the forest preserve study area. They found that the numbers of cicadas were greatly reduced to about 20 per cent of the 1956 count, but only in that area where the elms had died. In the upland oak area, numbers remained roughly the same as in 1956.

Those results seem relatively straightforward, but nature is full of surprises, which is one of the reasons we are fascinated by it. The ratio of females to males has changed radically from about one-to-one, a reasonable situation to our human minds, to twice as many females as males. Why? This is one of the puzzles Dybas and Lloyd are still working to solve. In the meantime, they have published an extensive review of populations of periodical cicadas in the arc from eastern Virginia through southern Ohio to southeastern Kansas and northeastern Oklahoma, which is as far west as these interesting insects go.

The scanning electron microscope purchased with funds from a National Science Foundation grant was installed in mid-1973. The facility housing it was built with funds from the Capital Campaign. The completed laboratory is under the scientific direction of Alan Solem, Curator, Invertebrates, and the technician is Ferdinand Huysmans.

In this biennium more than half the scientific staff have used this research tool in projects as varied as the study of: parts of a 200-million-year-old invertebrate fossil; wear surface of sand grains to determine deposition factors of African prehistoric stone tools; surface micro-structure of snake scales; pollen differences of closely related plants. The

information gathered through use of this instrument has already been incorporated into nine manuscripts and one published research paper.

During 1973-1974 the Museum's scientists published 117 research papers in a broad array of scientific journals, including the Museum's own series, *Fieldiana*. This series, which publishes research results mainly of the Museum's staff and research associates, comprised 42 articles totaling 2,913 pages in the past two years. The Museum also published a 124-page illustrated catalog, *Contemporary African Arts* by Maude Wahlman, to accompany the exhibit of the same name.

Study Collections

The Museum's collections, which number about 13,000,000 specimens, grew an estimated 2.5 per cent during 1973-1974. The numbers are necessarily approximate because many of the specimens are so small—minute beetles and shells—that actual counts are impractical. A significant proportion of the approximately 325,000 specimens acquired in this biennium were received as gifts. In terms of either numbers or scientific significance, or both, the following merit special notice:

—14,000 fossil plants and animals from Jerry Herdina of Berwyn, Illinois. These are fossils of the Coal Age (ca. 300 million years ago) found in the strip mine area southwest of Chicago. For 20 years, Eugene Richardson, Curator of Fossil Invertebrates, and paleontologists from other institutions have used parts of Mr. Herdina's collection in their studies of Coal-Age life. This collection significantly strengthens the Museum's important holdings of fossils of this age and area.

—approximately 82,000 marine mollusks, the collection of A. S. Koto and Adele Koto Bedell, given by Mr. and Mrs. Holden N. Koto of Beloit, Wisconsin. This remarkably well-documented, authoritatively identified collection is particularly strong in minute species from the Florida Keys. Since there is usually only one set of shells of each species in the collection, it forms an excellent synopsis of the marine mollusks of the area.

—the Orlando Park collection of pselaphid beetles (small ground-dwelling insects) bequeathed to the Museum by Dr. Orlando Park. Dr. Park was one of the world's few authorities on this large group of beetles and published extensively on this collection, which consists of more than 29,000 specimens and 1,234 named species. This material enhances the reputation of the Museum's already strong beetle collection.

—approximately 30,000 fishes, the gift of Dr. Hurst Shoemaker, formerly Professor of Biology, University of Illinois (Urbana). This collection

Tom Shakespeare, an Arapahoe historian from the Wind River Reservation in Wyoming, examines an Arapahoe tribal artifact in the Museum collections. Photos of artifacts and copies of anthropologists' field notes will be used to prepare tribal history books and curriculum materials for the Arapahoe tribe's school programs.

includes marine fishes from the eastern Mediterranean, which is poorly represented in American collections, as well as highly valuable specimens from the fresh waters of tropical South America and the eastern United States.

—a small collection of South African archaeological material received from Dr. Richard Klein. Though this collection is not large, it is the first Wilton period (ca. 10,000 years ago) material we have received. Most of the artifacts are small stone tools, representative of what archaeologists refer to as a microlithic industry.

Another important addition to the zoological collections came from the Arun Valley (Nepal) Wildlife Expedition. The Museum's participation in this program was financed by a gift from Mr. and Mrs. William S.

Street. The Arun Valley is one of the few areas in Nepal where undisturbed montane forest is still to be found. Consequently, the specimens received by the Museum—754 birds, 510 mammals, and 324 amphibians and reptiles—constitute an important sample from a rapidly shrinking environment.

We observed in the previous report that collection growth had to be controlled and suggested ways in which the growth should be channeled. The acquisitions we have highlighted illustrate some of those ways. The Arun Valley collections are from an endangered environment and specimens from such a situation should receive special attention. The Orlando Park beetle collection, the Herdina collection of fossils, and the Shoemaker collection of South American fishes add to existing strengths of the Museum, facilitating the work of specialists and thus making the collections more useful to science.

The botanical collection was enriched by 20,407 specimens received on exchange from other herbaria. This acquisition is counterbalanced by the 24,881 duplicate specimens our own Department of Botany sent out on exchange to 49 other institutions in the United States and abroad. This program of exchange is designed to strengthen collections in all herbaria. Therefore, the disparity between material received and shipped is not critical. On the whole, the larger American institutions with larger field programs send out more on exchange than they receive. The science of botany reaps the benefits.

As has been true for the last 20 years, the collections have received much use by persons not on the Museum's staff. Altogether, in 1973-1974, the Museum made 1,321 loans of 77,217 specimens to professionals and students throughout the United States and in many other countries. Fully 20 per cent of the loans made by the Department of Zoology went to foreign professionals; another 20 per cent went to students. The 184 loans made by the Department of Geology were sent to persons at 74 different institutions. In addition to the persons using the material sent on loan, 2,706 scientists and students visited the Museum to study the collections.

Recognition of this widespread and diversified service to science and society led to the relatively new program of support for major museum collections by the National Science Foundation. We previously reported on the grant of $355,000 to the Division of Insects made by the Foundation. The increase in supporting staff and the visiting specialists funded by this grant have made possible an expanded program of processing and distributing specimens within the collection. In the past two years over 250,000 specimens were handled and labelled, partially identified, reorganized into groups of related species, or otherwise made more accessible for use.

At year's end 1974 the Museum was notified of a similar collection support grant of $332,600 to the Department of Botany for five years and learned informally of a grant of $397,500 to the Division of Mammals.

We are pleased at the recognition and support these grants provide. Unfortunately, we have not yet been able to obtain adequate funding for the vital work of conservation and restoration in the anthropological collections. It was noted in the previous biennial report that these collections have suffered from the wide fluctuations in temperature and humidity that prevail in our 53-year-old building. The new housing for these collections projected in our capital improvement program will provide a stable, controlled environment to minimize future damage. A generous grant of $275,000 toward the cost of providing an improved environment for the collections through the installation of air conditioning was made by the National Endowment for the Arts. However, repair of the accumulation of environmental damage over the years is beyond the capacities of our small, though competent conservation-restoration staff of one and one-half persons. The search for funds to augment this staff and catch up with a backlog of work remains one of our main tasks. In the meantime, major attention has been given to emergency projects, such as: eliminating mildew on boots, drums, and clothing from Alaska and the Northwest; reconditioning leather on hide-covered wooden sculptures from Nigeria; restoring wood paint and lacquer on Indonesian musical instruments that were damaged when Museum water pipes burst.

Other Staff Activities

This biennium has seen many changes in the scientific staff. Five persons have retired—Emmet R. Blake, Curator of Birds; John Clark, Curator of Sedimentary Petrology; Philip Hershkovitz, Research Curator of Mammals; Louis O. Williams, Chairman of the Department of Botany and Curator of Central American Botany; and Rainer Zangerl, Chairman of the Department of Geology and Curator of Fossil Fishes. Retirement is an odd word—four of these men continue their research virtually full time, two at the Museum and two dividing their time between the Museum and their homes.

New staff members who joined the Museum during this interval are: Lorin I. Nevling, Chairman of the Department of Botany and Curator; Carol Jones, Assistant Curator of Invertebrates; John Pizzimenti, Assistant Curator of Mammals; Harold K. Voris, Assistant Curator of Amphibians and Reptiles. Each of these persons brings special talents as

well as scientific expertise to the Museum. We expect them to make important contributions to the Museum's scientific and public programs.

We regret to announce the deaths of two distinguished former members of our scientific staff—Paul S. Martin, Chief Curator Emeritus of Anthropology, and Clifford H. Pope, formerly Curator of Reptiles. Both of these men were outstanding in their fields and had great impact on the Museum.

Educational Programs

Department of Education

We referred in our previous report to the Department's dual short term goals: to continue and strengthen traditional educational activities and to develop and implement new approaches to museum education. Two significant developments illustrate departmental changes made to attain these goals. The first of these is the Ray A. Kroc Environmental Education Program. Funded by gifts from friends of Mr. Kroc, this program in its first two years has consisted of film series and lectures as well as field trips and special short courses designed for children, family groups, and adults. The program has a broad focus and includes natural environments, both contemporary (Indiana Dunes) and ancient (Coal-Age fossil deposits); environments adversely affected (in-shore Lake Michigan) or successfully managed by man (family farm); and special environmental problems, such as world food and energy supplies. Field trips have been led by Field Museum scientists and specialists from organizations such as the Environmental Protection Agency. Response to elements of the program have been varied; in particular, the field trips and courses have been quite successful. The program, which clearly fills the expressed need of the community, will evolve, test new ideas, and adapt to the interests of the public. It is this opportunity to experiment and test public reaction that makes funds, such as the Kroc Fund, so vital to Field Museum.

Another significant change in departmental programming is the emphasis on integration of activities with new exhibits. The opening of the "Contemporary African Arts" exhibit in 1974 initiated a series of programs designed for various segments of the Museum's audience. There were special services—guided tours and printed materials—for school groups; a dance program for high-school students; demonstrations and performances by African craftsmen and artists in Stanley Field Hall for general Museum visitors; a series of films produced by Africans and another on special ethnographic subjects produced by anthropologists;

and a lecture series on contemporary African arts for the benefit of persons with serious interests in the exhibit topic. We hope to make such services a part of our regular program as we believe they reinforce the impact of an exhibit and increase the pleasure experienced by museum visitors.

Though we wish to continue to test new kinds of programs, successful older ones will not be neglected. One of the traditional functions of the Department of Education is to arrange for tours of the Museum's exhibits by groups. In 1973-1974, a total of 618,889 children in 10,235 groups visited the Museum— a 10 per cent decline from the previous biennium. The significant drop began in January and February, 1974, when school group attendance fell 30 per cent compared to the preceding year. This was almost certainly an effect of the gasoline shortage, first felt then; 37 groups cancelled visits because they lacked fuel for their buses. But other factors, such as inflation, reduced federal funding, and decreased numbers of elementary school students are also involved.

Though total school attendance declined, service in the form of special programs—guided tours of certain exhibits, classroom activities, etc.—given by Raymond Foundation instructors and trained volunteers increased from 131,512 to 136,451. We believe the quality of this service has improved. If so, the improvement is due, in large measure, to volunteer instructors. These volunteers clocked many hours of study and preparation and logged miles of walking through Museum halls to provide enthusiastic service to students. For example, volunteers were responsible for services to the 20,285 school children who saw the "Contemporary African Arts" exhibit. In order to carry out this function effectively, these volunteers devoted time to a special training program conducted by Edith Fleming of the Raymond Foundation staff.

A series of demonstrations of crafts presented in classrooms or in exhibit halls brought exhibits to life. By these demonstrations, John White and Phillip Cotton of the Department of Education actively show both children and adults how various kinds of objects were and are made in the cultures dealt with in the exhibits.

The Department of Education has continued to give or co-ordinate courses for high-school students. Two of these courses were presented by department staff: Harriet Smith repeated her successful summer anthropology course and James Bland taught a new course in stream ecology. The other courses were offered by the Chicago Board of Education: a museology course for gifted students and a course in archaeology for the Metro "high school without walls." Staff from the scientific departments gave lectures, supervised work of students, or provided other services to all these groups.

As part of Field Museum's on-going effort to serve the many ethnic groups in the community, "Cats, the Graceful Hunters," a self-guided tour, was issued in both Spanish and English.

Harris Extension, a division of the Department of Education, continued its program of lending small museum cases to schools. Now in its sixtieth year, the Harris Extension delivered exhibit cases to 425 schools and libraries in Chicago on a regular rotating basis in 1973-1974. Though these small, glass-enclosed cases still serve an important function in themselves, they are supplemented by new kits of material that children can handle. New kits that began to circulate in 1974 dealt with the kinds of textiles shown in the "Contemporary African Arts" exhibit and with the origins, uses, and environmental impacts of coal. We expect that this division will continue to produce small, simple kits for "hands-on" learning activities, as well as additional cases along the style of the older, successful ones. The numbers of teachers from elementary schools and community centers who ask to borrow these materials convince us that this general function of the department will grow in importance.

The "outreach" represented by Harris Extension activities is one of the areas in which we anticipated greater emphasis. Among the new

activities of this general category launched in 1973-1974 were programs in environmental affairs and African arts and crafts given in schools by Education staff partially supported by grants from the National Endowment for the Arts and the Illinois Arts Council. Special programs on Native American culture were given at the O-wai-ya-wa branch of Goudy School in Chicago's Uptown area; this part of our outreach program was supported by a grant from the W. Clement & Jessie V. Stone Foundation. We have learned that the relationship of the Museum and these programs has not been clearly drawn. To correct that, some programs are being pulled back to the Museum, relying on the initial community contacts for participants, while the Museum's role is being stressed in others. For example, John White, Co-ordinator, Native American Program, has brought his students to the Museum where, with the help of our collections and archival material, they are reintroduced to their ancestral cultures. Also, the programs on African crafts and culture are now being concentrated in the exhibit halls.

Another outreach activity—helping teachers and group leaders use our resources to best advantage—was undertaken as a practical way to expand services to visiting groups. Departmental staff have approached this in two ways: Alice Carnes, Chairperson of the Department, and Nancy S. Simpson produced a pamphlet that helps teachers plan trips to Field Museum and follow-up programs in their own classrooms; in 1974, Barbara Reque, Co-ordinator, Teacher Training, gave workshops, mainly in schools, to approximately 2,300 teachers and parents. These workshops dealt with using the Museum as an educational resource.

The Ayer Lecture series of illustrated talks on Saturdays, another of our traditional programs, continued to attract large audiences. Several Friday evening lectures were added in 1973. These drew moderate audiences, and we believe attendance will grow as word spreads. When renovation work on the Museum caused the closing of Simpson Theatre, the usual site of the Ayer Lectures, we began to experiment with a different format in the smaller Lecture Hall. In 1974 museum curators discussed their field research in a series entitled "Expeditions Unlimited." These have so far not attracted audiences as large as the usual Ayer lectures. We regret not being able to serve the same audience, but the renovation and temporary closure of Simpson Theatre has given us little option.

Advanced Studies

Universities and colleges continue to use the Museum's scientific staff and collections for the benefit of their classes and individual students. In 1973-1974 more than 100 class groups visited the scientific

departments with their instructors to get a view of museum research. In this activity the Museum serves as a regional resource since a number of these classes came from outside the metropolitan area, from schools in central Indiana (Earlham College), southern Illinois (Southern Illinois University), Ohio (Oberlin College), and other states in the Midwest.

Museum Staff gave courses for Northwestern University, University of Illinois (Medical Center), University of Illinois (Chicago Circle), University of Chicago, Notre Dame University, and Wright Junior College in the past two years. The subjects of these courses have varied from oceanography to the art of non-literate peoples, from dental morphology to plant taxonomy.

Perhaps the most significant educational activity of the Museum's scientific staff is its work with individual college and university students. Conducted through the auspices of the Museum's Center for Advanced Studies, this activity results in the training of future scholars and scientists. Members of our staff served on the thesis committees of 11 students during this biennium and supervised the work of additional graduate students who use our collections on a continuing basis.

In the past, the Center was concerned almost exclusively with students working for their doctorates. However, the Museum staff directly involved with the Center, under the leadership of Rupert L. Wenzel, Chairman, Department of Zoology and Curator, Insects, has perceived broader functions for the Center, enabling it to satisfy better the needs of individual students in a changing world. Today fewer students aim for a Ph.D. degree and many now prefer a master's degree or even a more intensive undergraduate program. For these students, the Center will make more opportunities either in the form of courses for undergraduates or in the form of part-time participation in the research programs of individual curators. The laboratory program for undergraduate work in archaeology, mentioned in our previous report, is a good example.

Other students prefer practical experience that would help prepare them for jobs in museums. For them, we have developed an internship program worked out in co-operation with three colleges—Antioch (Yellow Springs, Ohio), Beloit (Beloit, Wisconsin), and Evergreen State College (Seattle, Washington). Under this program a student works full time at the Museum for six months at a task that is both educational for the student and beneficial to the Museum. For example, one intern this year, working under the supervision of Bennet Bronson, Assistant Curator, Asiatic Archaeology and Ethnology, did the necessary research and prepared the text for revised labels in one of our older anthropological exhibits.

Of course, some undergraduates and interns become so interested in a field during their experience at the Museum that they change their goals and enter graduate school to work for a doctorate. Several undergraduates, working under the guidance of John Terrell in archaeology, have begun to publish the results of their research and have moved on to graduate school. The student intern who worked with Bronson has made the same decision.

The Library

In 1973-1974 use of the collections and services of the Library increased again. Circulation of volumes rose to 19,703, a jump of 18 per cent over the previous biennium; photocopy services rose 30 per cent. Loans to other libraries increased 13 per cent to 753, which means that about three loans are made every working day. At the same time, requests of our staff for library materials from other institutions rose 60 per cent to 468. However, in spite of this substantial increase, we still lend far more volumes than we borrow. Though we take pride in the obvious value outsiders place on our library resources, the pattern of growth must soon level off since our financial resources do not permit an increase in staff.

The Library added 5,468 books and 21,924 individual issues of serial publications to its collections in 1973-1974. Costs of publications have risen about 50 per cent in the last two years, forcing a reduction in our purchases. Since, in a sense, we are committed to our subscriptions of the serial publications to avoid gaps in runs, the major cuts have been in our book purchases—about 20 per cent. This is a serious problem, as it can adversely affect our basic research program.

Knowing that every major research library is suffering similarly is small comfort. However, the common problem is a potent stimulus to co-operative library activities. We have joined the Serials Information System of the Illinois Regional Council. A list of the serial publications we receive has been entered into the System. The first product of the System is a book soon to be published: "Union List of Serial Holdings in Illinois Special Libraries," which will facilitate the sharing of regional resources.

The Library continues to receive gifts of books and periodicals, gifts appreciated even more because of the inflationary pinch. Though all the gifts to the Library in 1973-1974 are valuable and valued, we think one in particular should be mentioned. Mrs. A. W. F. Fuller, who has enriched our Library over the years with many rare volumes, has just given us five remarkable works, including *Musaeum Tradescantianum: or, A Collec-*

tion of Rarities Preserved at South-Lambeth neer London, by John Tradescant (London, 1656) and *An Album of the Weapons, Tools, Ornaments, Articles of Dress, Etc., of the Natives of the Pacific Islands,* by James Edge-Partington (Manchester, 1890-1898). These volumes are from the library of Mrs. Fuller's late husband, Capt. A. W. F. Fuller, and contain notes in his hand on the origins, history, and other features of these publications.

The volumes received from Mrs. Fuller will be added to the Museum's Rare Book Collection, which as noted in our last report was being surveyed by consultant Robert Rosenthal, Curator, Department of Special Collections, Joseph Regenstein Library, University of Chicago. The survey confirmed in detail our assumption that the Library possessed a great many more rare books than were contained in the present rare book room, that a great deal of repair work and restoration will be required to properly preserve the collection, and that a new rare book room is required to house it adequately. Plans for the new room have been drawn and the facility will be constructed as part of the building modernization program. Establishment of the new facility and the completion of the work of repair and restoration of the volumes themselves will ensure that this valuable collection is properly preserved for future generations.

Exhibition Program

Three major temporary exhibits were produced during this biennium:

—"Below Man's Vision," an exhibit showing some of the uses of a significant scientific tool, the scanning electron microscope.

—"Seventeen-Year Cicada: A Strategy for Survival," an explanation of one of nature's spectacular phenomena.

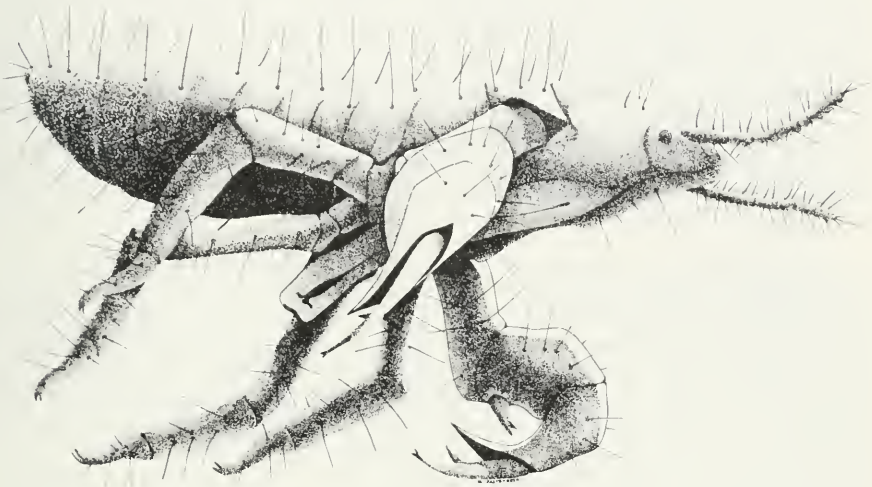
—"Contemporary African Arts," a review of selected African artists and crafts.

Each of these exhibits has traveled to other museums and places after being shown in our halls. "Below Man's Vision" was divided into two parts, one circulated by the American Dental Association and the other by the Smithsonian Institution Traveling Exhibit Service.

"Below Man's Vision" has traveled to: The Davenport Museum, Davenport, Iowa; The Boston Museum of Science, Boston, Massachusetts; The Academy of Natural Sciences, Philadelphia, Pennsylvania; The American Museum of Natural History, New York, New York; The Buffalo Museum of Science, Buffalo, New York; The Pacific Science

Center, Seattle, Washington; and Chaffey Community College Museum, Alta Loma, California.

"Seventeen-Year Cicada: A Strategy for Survival" has been seen at The American Museum of Natural History, New York.



The 17-year cicada was the subject of the 1973 exhibit "Seventeen-Year Cicada: A Strategy for Survival" and is the focus of research by Curator Henry Dybas. This detailed drawing of a cicada nymph is by Scientific Illustrator Zbigniew Jastrzebski.

"Contemporary African Arts" will be shown at The American Museum of Natural History, New York in 1975 and is scheduled to travel to The Heard Museum, Phoenix, Arizona (1976) and Winnipeg Art Gallery, Winnipeg, Manitoba, Canada (1976).

We borrowed a number of temporary exhibits of varying sizes from other sources. These exhibits covered topics as diverse as Spanish cave paintings, adaptations of reptiles, and art produced by American Indian children.

Our program of temporary exhibits has for some time included small single-case exhibits intended as accents to our general exhibition program. During 1973-1974 this category included exhibits of 10 of the original copper engraved plates from *Wilson's American Ornithology, 1808-1814,* an important early American work on birds; rhinoceros horn cups from our Chinese collection; and a reconstruction of a puzzling, small fossilized creature, fancifully named the Tully Monster.

We have also had a small "live" exhibit—an old Mexican loom has been installed in the South Lounge. Members of the North Shore

Weavers' Guild work the loom during mid-day hours three days each week, providing our visitors an opportunity to see an ethnographic object as a functioning tool.

Exhibits, like everything else, age and require care. Maintenance is, therefore, a major concern of the Department of Exhibition. In 1974 the Anniversary Exhibit was completely cleaned and repairs made where needed. The Hall of Horned and Hoofed Mammals, which flanks Stanley Field Hall, has dimmed over the years. In 1974, it, too, was thoroughly renovated. All of the animal mounts were removed and cleaned; in a few instances the glass eyes were replaced. The labels were revised and the interior of the cases were repainted—instead of the old buff, a bright color was used to set off the tawny hue of the animals. Finally, the entire hall was painted.

Work on new permanent exhibits was restricted to "Man In His Environment," which will occupy an entire hall and is expected to open toward the end of 1975. This major project is part of the Exhibit Master Plan, the document designed to guide our long-range permanent exhibit program. This exhibit has taken much longer to develop than had been expected. The most serious problem has been how to show processes and functions using essentially static specimens and objects. The lessons learned here should help us make decisions on future permanent exhibits.

The Exhibit Master Plan has passed through two stages of review and criticism—first, by a staff committee consisting of all departmental chairmen, the Planning and Development Officer, the two Assistant Directors, and the Director; and then by an outside group of professionals. The last consisted of: Dr. John Neuhold, Director, The Institute of Ecology; Professor Fred Eggan, University of Chicago; Dr. Lucy Ann Geiselman, Assistant Vice Chancellor, University of California; and Mr. Joseph Shannon, artist. As a planning document, the Exhibit Master Plan was praised by both groups, though each pointed to certain problems or possible hazards. The outside reviewers warned against over-designing exhibits and urged that future exhibits retain the emphasis on specimens and objects while keeping a tight check on a common tendency in museums to use electronic audio-visual gadgets too heavily. The internal review group approved the master plan and adopted the tentative priorities recommended in the document.

Those priorities list the first new major exhibits to be done, as well as the first existing exhibits to be thoroughly renovated. The list includes, in addition to "Man in His Environment," the hall on the archaeology and ethnology of Eskimos and Northwest Coast Indians (Hall 10). The existing exhibit is one of the oldest in the building and needs to be completely redone. It also houses one of our outstanding collections. As of this writing, James VanStone, Chairman, Department

of Anthropology and Curator, North American Ethnology, has begun the planning work on this hall. Other new permanent exhibits given high priority in the master plan include a hall on the origin and physical history of the earth, and one on the ethnology of Polynesia and Melanesia.

Early renovations called for by the master plan include the exhibits on reptiles and amphibians, the one on American mammals, and the hall of dinosaurs and fossil mammals. The reptiles and amphibians had been removed to make room for the temporary exhibit of Russian folk art (1972). In 1974 the reptiles and amphibians were reinstalled, as recommended in the master plan, in half of a hall, which necessitated removing some objects from exhibit and shifting others within the remaining half hall.

This removing of one set of exhibits in order to install another is certain to be repeated as the Exhibit Master Plan is implemented. It is inevitable when new exhibits are produced in an already full set of halls. A major problem facing us, one explicitly mentioned in the Master Plan itself, is careful consideration of old and new exhibits so that each change is a genuine step forward for the Museum's public programs.

The rate at which the exhibit plan is implemented will depend on a number of factors, including resources in personnel and money and conflicting demands for those resources. Although our staff is small compared to the total program envisioned in the plan, it is talented and not likely to be the major limiting factor. Funds allocated for exhibit purposes from the Capital Campaign will help greatly in the next few years.

Ironically that campaign, which will so significantly help meet the costs of new and renovated exhibits, is also the source of major conflicting demands on our personnel resources. The Capital Campaign will make possible vital expansion of collection storage facilities and almost desperately needed environmental controls in the exhibit halls. However, these necessary projects impinge on the exhibit program. Exhibition staff must shift many cases or otherwise protect the exhibits as pipes carrying new utilities are installed in every exhibit hall. Curatorial staff must shift collections into the new facilities. The challenge confronting the staff in the next two years is how to meet the needs of the capital improvement program, and simultaneously advance the goals of the Exhibit Master Plan. It should be an interesting period in the history of the exhibition program.

Building Modernization and Rehabilitation

Not even the most casual passerby could fail to be aware of the Museum's building and renovation activities in the past two years as the north and south stairs of the Museum were removed to permit waterproofing and rebuilding the basic stair structures. Centralized administrative offices will be housed beneath the north portico and maintenance and engineering facilities will have new quarters under the south stairs. Also, the entire building was tuckpointed and emergency exits were installed from each of the Museum's eight stairways.

Inside the building activity has also been intense as Museum staff members from several departments, contractors, and architects worked together on other elements of the building modernization and rehabilitation program, funded by the $25-million Capital Campaign. Turner Construction Co. has acted as construction manager. Through this cooperative effort most of the Museum's public space and research areas will be available for use as construction work proceeds.

Significant portions of the total program were completed by the close of 1974. A new hydraulic freight elevator was installed, boiler equipment was modernized, and the coal-fired boilers were converted to natural gas use. A new replacement key system throughout the building insures security as areas are limited to authorized personnel.

Our last report referred to new quarters for the Division of Invertebrates in a lightwell on the west side of the building. In 1974 additional Zoology laboratories and storage areas were completed on the second floor level and mezzanine of this lightwell. This area also provides space for a new classroom located adjacent to exhibits used by school groups.

A scanning electron microscope was installed in a new laboratory in mid-1973 (see p. 9).

Substantial progress has been made in the electrical rewiring of the entire building, a massive undertaking which will provide for the lighting and power needs of modern exhibits and for the air conditioning of the Museum. This air conditioning will not only provide for human comfort during Chicago's hot summers, but will help to protect the many delicate specimens in the collections from damage due to fluctuations in temperature and humidity. A new enlarged electrical vault has been installed below ground level on the Museum's south terrace to meet these great power demands.

Both the south (shown here) and north stairs of the Museum were removed so that the basic stair structures could be waterproofed and rebuilt. This project was part of the building renovation funded by the Capital Campaign.

Exhibit areas, too, have echoed to the pound of hammers and roar of drills as renovation was completed in Halls 11 and 19 and begun in Hall 18, the site of the up-coming "Man In His Environment" exhibit.

Finally, at the close of the 1974 bids were being accepted on our largest single project, Public Space Renovation. Designed to provide

improved visitor services and meet the steadily increasing demands of our growing Museum, this project includes new ground floor educational facilities with a new west entrance for school groups and handicapped visitors. One of the great benefits of this project will be to make the entire Museum barrier-free, so that physically handicapped visitors can move through the building with ease. New food services, an expanded book shop, theater renovation, three new passenger elevators, and expanded checking and visitor facilities are planned to aid all Museum-goers.

Publications

The sharing of knowledge through publication is one result of the research program conducted by Field Museum. The following list consists of the scientific publications of the Museum's curatorial staff and is a complete list of *Fieldiana,* the Museum's scientific series, for 1973-1974. Exhibit catalogs published by the Museum are also included here. Both curatorial and non-curatorial staff members have also published popular books and articles, abstracts, encyclopedia entries, and reviews.

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1973. (with T. Asmar) *Laporan Ekskavasi Ratu Baka.* Lembaga Purbakala dan Peninggalan Nasional, Jakarta. 62 pp. (mimeo and offset)

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1974. *Athapaskan Adaptations: Hunters and Fishermen of the Subarctic Forests.* Aldine Publishing Co., Chicago. 145 pp.

1974. (with Charles Lucier) An Early Archaeological Example of Tattooing from Northwestern Alaska. *Fieldiana: Anthropology,* vol. 66, no. 1, pp. 1-9.

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1973. (with Y. Kuwahara) *Metzgeria literalis* sp. nov. and *Apometzgeria* from Southern South America. *Bryologist,* vol. 76, pp. 293-296.

1973. (with R. M. Schuster) On Some Tidal Zone Hepaticae from South Chile, With Comments on Marine Dispersal. *Bulletin of the Torrey Botanical Club,* vol. 100, pp. 29-35.

1973. On the Typification of *Austrolophozia fuegiensis* (Steph.) Schust. *Journal of the Hattori Botanical Laboratory,* vol. 37, pp. 181-183

1973. (with R. M. Schuster) Austral Hepaticae I. *Pigafettoa* Mass. *Bryologist,* vol. 76, pp. 511-515.

1973. Austral Hepaticae II. *Evansianthus,* a New Genus of Geocalyceae. *Bryologist,* vol. 76, pp. 516-520.

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Field Museum of Natural History *Bulletin*

At its inception the *Bulletin* was devoted exclusively to Field Museum activities, with emphasis on public programs, exhibits, and

This portrait of Black Hawk, a Sauk and Fox chief, was painted by George Catlin in 1832 while the chief was a prisoner of war at Jefferson Barracks near St. Louis, Missouri. This is one of a collection of 35 Catlin paintings in the Museum's collections.

interesting accessions. Under the editorship of David M. Walsten, appointed in 1973, the publication continues with the Museum as its focal point; but also reflects today the strong concern among the general public, as well as scientists and educators, with the quality of the environment. Feature articles are commonly devoted to matters such as endangered wildlife, conservation of natural resources, and environmental pollution.

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Field Museum of Natural History has a heritage founded upon the benefactions of a number of prominent Chicago citizens. Their bequests created an endowment that assured services of the Museum to many generations. Later generations, too, have added to the endowment by way of bequests, thereby becoming a part of that heritage and making the work of the Museum as perpetual as history. So, also, the contributions[1] and bequests[2] of today will assure the benefits of the Museum to coming generations, memorialize the donor, and continue this great heritage. Those who wish to provide for Field Museum in their wills may use the following form:

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I do hereby give and bequeath to Field Museum of Natural History, an Illinois not-for-profit corporation in the City of Chicago,_____

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Mr. Thomas R. Sanders
Planning and Development Officer
Field Museum of Natural History
East Roosevelt Road and Lake Shore Drive
Chicago, Illinois 60605

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[1]Contributions to Field Museum of Natural History are allowable as deductions in computing net income for Federal Income Tax purposes.

[2]Bequests to charities can reduce one's gross estate for Federal Estate Tax purposes. Persons interested should seek legal counsel.

Field Museum o

Statement of Revenues a

Years ended Decembe

Source of revenue:
- Public funds –
  - Chicago Park District tax collections
  - Government grants (Note 1a)
  - Total public funds
- Private funds –
  - Investment revenue availed of for operations:
    - Consolidated security investments
    - Securities of individual funds
    - Total investment revenue
  - Unrestricted contributions (Note 1a)
  - Memberships
  - Restricted private funds availed of for operations (Notes 1a and 2)
  - Total contributed revenue
  - Earned –
    - Admissions
    - Visitors services and other - net
    - Total earned revenues
    - Total private funds
    - Total revenue

Operating costs:
- Scientific
- Education and exhibition
- Publication and photography
- Library
- Building operations and security
- Administration and development

Expenditures in excess of revenues

See accompanying notes.

Natural History

Expenditures — Current Funds

31, 1974 and 1973

1974			1973		
Operating	Restricted	Total	Operating	Restricted	Total
$1,098,483		1,098,483	1,092,199		1,092,199
65,293	321,754	387,047		409,279	409,279
1,163,776	321,754	1,485,530	1,092,199	409,279	1,501,478
1,325,707	190,570	1,516,277	1,220,614	155,213	1,375,827
47,671	81,636	129,307	55,568	75,214	130,782
1,373,378	272,206	1,645,584	1,276,182	230,427	1,506,609
259,237		259,237	246,549		246,549
213,080		213,080	212,264		212,264
	268,086	268,086		210,688	210,688
472,317	268,086	740,403	458,813	210,688	669,501
350,046		350,046	347,816		347,816
186,761		186,761	250,345		250,345
536,807		536,807	598,161		598,161
2,382,502	540,292	2,922,794	2,333,156	441,115	2,774,271
3,546,278	862,046	4,408,324	3,425,355	850,394	4,275,749
1,005,307	334,042	1,339,349	872,717	562,854	1,435,571
480,147	489,811	969,958	513,592	250,225	763,817
192,812	11,569	204,381	179,847	6,804	186,651
145,129	11,389	156,518	129,162	12,404	141,566
1,135,877	7,765	1,143,642	1,069,790	9,912	1,079,702
858,638	7,470	866,108	825,192	8,195	833,387
3,817,910	862,046	4,679,956	3,590,300	850,394	4,440,694
$ 271,632	—	271,632	164,945	—	164,945

NOTES TO STATEMENT OF REVENUE AND EXPENDITURES — CURRENT FUNDS

December 31, 1974 and 1973

1. Significant accounting policies

(a) *Accrual basis of accounting*

The statement of revenues and expenditures — current funds is prepared on the accrual basis of accounting, except as to contributions, which are accounted for on a cash basis. At December 31, 1974 pledged but uncollected contributions to the various funds amounted to approximately $3,400,000 ($3,000,000 in 1973). It is not practicable to estimate the net realizable value of such pledges.

The Museum includes current restricted funds, restricted contributions and grants in the statement of revenues and expenditures only when such funds are expended. Such contributions received in 1974 and included in restricted funds revenue amounted to $74,432 ($193,165 in 1973). Contributions availed of from prior years and included in revenue were $193,654 in 1974 ($17,523 in 1973). Expenditures of accumulated restricted contributions in 1974 were $268,086 ($210,688 in 1973).

(b) *Museum property and collections*

The Museum's building and building equipment are carried on the books at accumulated cost to October 1931; subsequent alterations and renovations, including expenditures incurred under the Museum modernization program, are charged to expense. Collections, furniture and equipment of the Museum are carried at a nominal value of $1, acquisitions being treated as expense. In accordance with common institutional practice, no depreciation is provided on the Museum properties.

(c) *Total return concept*

The Museum applies what is known as the total return concept for investing its funds functioning as endowment (i.e., those funds on which restrictions on the use of principal have been imposed by action of the Museum's own Board of Trustees, rather than by outside donors or testators). Under this concept, security investments are selected on the basis of expected total return, including dividends, interest and prospective appreciation. Since this policy may involve the purchase of attractive low yield investment, with resulting reductions in dividend and interest receipts, the Museum computes investment income (from the funds functioning as endowment) available for expenditures each year as 5% of the average June 30 market values of the securities for the three preceding years. Differences between this amount and dividends and interest actually received each year are charged or credited to accumulated net gain on sales of securities held by funds functioning as endowment. In 1974 the resulting charge amounted to $312,391 ($201,992 in 1973).

(d) *Pensions*

The Museum since 1966 has had a contributory trusteed pension plan covering substantially all full-time employees, the costs of which are funded on a current basis as they accrue. Pension expense accrued in 1974 amounted to $143,000 ($130,000 in 1973), which includes amortization of past service cost over 15 years. The unfunded past service liability at December 31, 1974 was approximately $318,000 ($357,000 in 1973). The market value of the fund's assets (including the balance sheet accrual) at December 31, 1974 was approximately $312,000 less than the present value of vested benefits at January 1, 1974, the latest valuation available; at the end of 1973 the market value of the fund's assets exceeded the present value of the vested benefits. Actuarial gains from the Museum's group annuity contract, held in suspense since 1966, are treated as deferred credits and amortized to the plan over ten years, resulting in a reduction in pension expense of approximately $19,000 in 1974 and $14,000 in 1973.

2. *Restrictions on expenditures*

The restricted funds are subject to restrictions placed upon the funds primarily by donors. Those funds may be expended only in accordance with the terms of the respective gifts or bequests.

THE BOARD OF TRUSTEES
FIELD MUSEUM OF NATURAL HISTORY

We have examined the accompanying statement of revenues and expenditures – current funds of the Field Museum of Natural History for the years ended December 31, 1974 and 1973 prepared on the basis described in Note 1(a), (b), and (c). Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests of the accounting records and such other auditing procedures as we considered necessary in the circumstances.

In our opinion, the statement mentioned above presents fairly the revenues and expenditures – current funds of the Field Museum of Natural History for the years ended December 31, 1974 and 1973 in conformity with the method of accounting described in Note 1(a), (b), and (c) applied on a consistent basis during the period.

ARTHUR YOUNG & COMPANY

March 28, 1975

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